

*What is claimed is:*

Claim 1: An article having a defined orientation and a generally planar extension comprising:

a substantially planar web of nanotubes, each nanotube generally lying in a plane that is coplanar with the article and extending along the article but not constrained to being parallel to other nanotubes

wherein the substantially planar web of nanotubes provides a conductive pathway through the article.

Claim 2: The article of claim 1 wherein the nanotubes include single-walled carbon nanotubes.

Claim 3: The article of claim 1 wherein the nanotubes include multi-walled carbon nanotubes.

Claim 4: The article of claim 1 wherein the nanotubes have different lengths.

Claim 5: The article of claim 1 wherein the nanotubes include nanotubes having a length shorter than the length of the article.

Claim 6: A substantially planar article having a defined shape and orientation comprising:

an unaligned texture of nanotubes generally extending in the defined orientation of the article, each of the nanotubes not constrained to being parallel to one another;

wherein the unaligned texture of nanotubes provides a conductive pathway through the article.

Claim 7: The article of claim 6 wherein the nanotubes include single-walled carbon nanotubes.

Claim 8: The article of claim 6 wherein the nanotubes include multi-walled carbon nanotubes.

Claim 9: The article of claim 6 wherein the nanotubes have different lengths.

Claim 10: The article of claim 6 wherein the nanotubes include nanotubes having a length shorter than the length of the article.